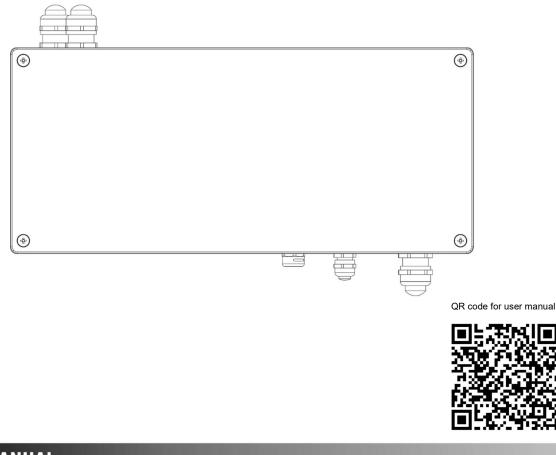


E-box Remote Basic



USER MANUAL

Version 2.3

E-box Remote Basic

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1. Safety information

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING YOUR E-BOX REMOTE BASIC! Save it for future reference.

DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!

Make sure that the available voltage is not higher than stated on the fixture.

Always disconnect the fixture from AC power before removing its cover.

Make sure that the supply cables are not damaged by sharp edges. Check the fixture and the cables from time to time.

Do not install the fixture near an open flame.

This fixture falls under protection class I. Therefore, this fixture has to be connected to a mains socket outlet with a protective earthing connection.

Do not connect this fixture to a dimmer pack.

Do not cover the fixture with cloth or other materials.

The fixture is designed for outdoor use and it is intended for professional application only. It is not for household use.

When choosing the installation spot, please make sure that the fixture is not exposed to extreme heat or dust.

Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.

Operate the fixture only after having familiarized yourself with its functions. Do not permit operation by persons not qualified to operate the fixture. Most damages are the result of unprofessional operation!

Please consider that unauthorized modifications on the fixture are forbidden due to safety reasons!

Please use the original packaging if the fixture is to be transported.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the warranty becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock etc.

Immunity of the equipment is designed for electromagnetic environments E1, E2, E3 according to the standard EN55103-2 ed.2 Electromagnetic compatibility. Product family standard for audio, video, audiovisual and entertainment lighting control apparatus for professional use. Part 2: Immunity.

The product (covers and cables) must not be exposed to a high frequency electromagnetic field higher than 3V/m

The installation company should check levels of possible interferences above the tested levels E1, E2, E3 given by this standard (e.g., transmitters in surrounding area) before installing the equipment.

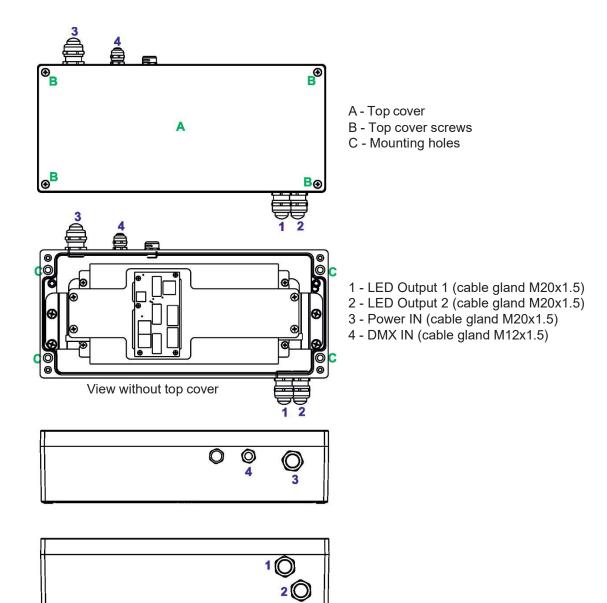
Emission of the equipment complies with the standard EN55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements according to class B.

ATTENTION! Risque de choc. Couper L'alimentation avant L'entretien. Non destine a à un usage domestique

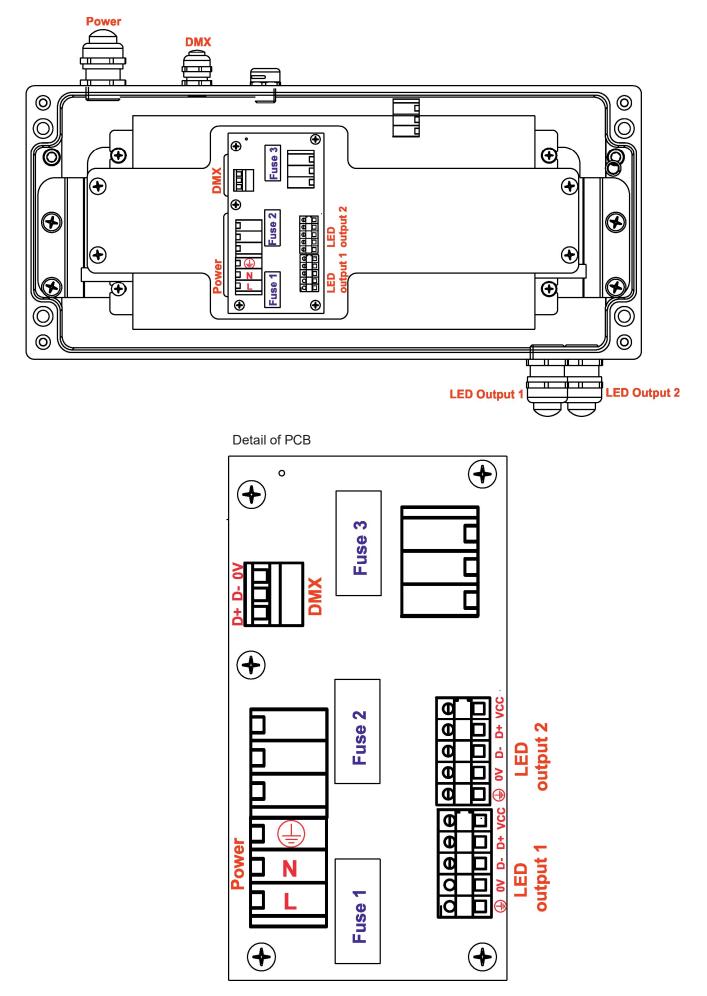
Convient aux emplacements mouillés.

Ce produit doit être installé selon le code d'installation pertinent, par une personne qui connaît bien les produit et son fonctionnement ainsi que les risques inhérents.

2. Fixture description



Connection points



3. Mounting

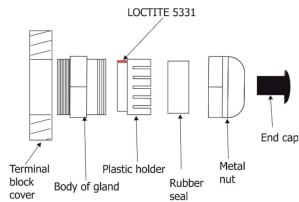
Fixture must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations.

Setting and addressing the E-BOX REMOTE BASIC without top cover can be done by a qualified person only!

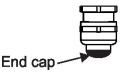


Note for cable glands.

We recommend applying an adequate layer of the paste LOCTITE 5331 on the plastic holder of the cable gland before inserting it into the body of the gland.



- 1. Remove the top cover (A) from the E-box Remote Basic by unscrewing four fastening screws (B) in order to get access to the terminal boxes.
- 2. Fasten the E-box Remote Basic on a non-flammable flat surface via four mounting holes (C) of a diameter of 7 mm in its housing.
- 3. Remove end caps from cable glands before passing cables. To keep declared IP rating of the device, every cable gland has to be covered with the end cap if the cable gland is not used.



- 5. Pass cable for DMX through cable glands M12x1.5 and connect it to the terminal block and tighten the cable in the cable gland.
- 6. Pass cables for Power and LED outputs through cable glands M20x1.5 and connect them to the terminal blocks and tighten the cables in the cable glands.

Cable glands serve for cables of the following diameters:

Cable gland M12x1.5 (DMX) - for cable of a diameter of 3-7mm.

Cable gland M20x1.5 (Power IN, LED Output) - for cable of a diameter of 7-13mm.

- 7. Check that all screws and cable glands are firmly tightened.
- 8. Screw the cover (A) back on the box.

ALWAYS DISCONNECT THE E-BOX REMOTE BASIC FROM MAINS BEFORE CONNECTING/DISCONNECTING LED MODULES

This device falls under protection class I. Therefore, every E-box Remote Basic has to be connected to a mains socket outlet with a protective earthing connection

Power connection

	L	N	Ð
Core (CE)	Brown	Blue	Green/yellow
Core (US)	Black	White	Green

DMX connection

D+	D-	0V
Data +	Data -	Data ground (shielding)

Eminere Remote connection

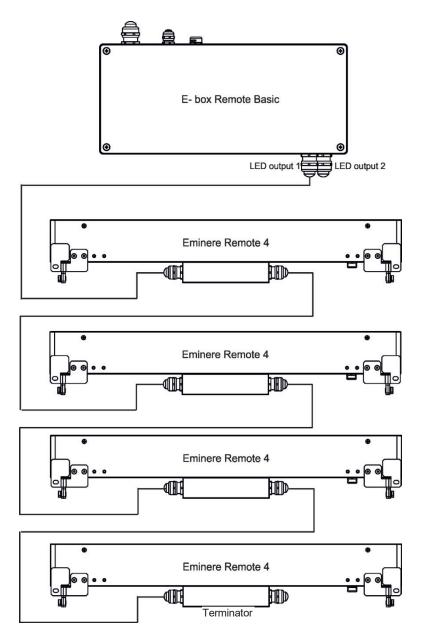
CE version:

Mark	Function	Wire
Vcc	LEDs +	Red
D+	DATA +	Orange
D-	DATA -	White
0V	LEDS -	Black
	Ground	Not connected

US version:

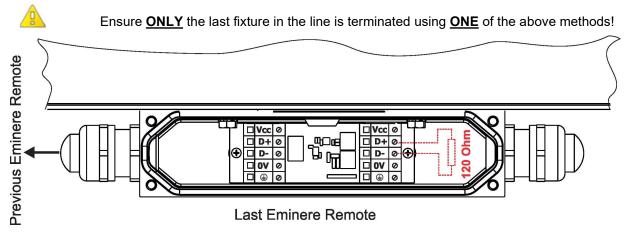
Mark	Function	Wire
Vcc	LEDs +	Red
D+	DATA +	Orange
D-	DATA -	White
0V	LEDS -	Black
Ð	Ground	Green

Example of connection



Each line of Emineres Remote connected to the LED output of the E-box Remote Basic has to be terminated at the last fixture.

<u>EITHER</u> connect a 120 Ohm resistor between terminals D+ and D- as shown, <u>**OR**</u> terminate via RDM as described on page 13.

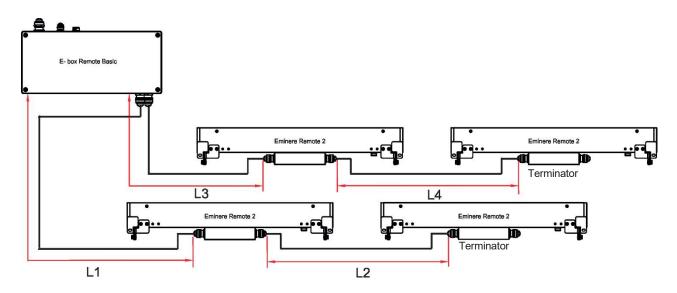


The number of Emineres Remote connected to one LED output of the E-box Remote Basic depends on the type of Eminere Remote and cable length.

	Max. number of Emineres Remote connected to the E-box Remote Basic						
Cable length *	Eminere Remote 1	Eminere Remote 2	Eminere Remote 3	Eminere Remote 4			
25 m	20	10	6	5			
50 m	16	8	5	4			
75 m	13	6	4	3			
100 m	10	5	3	2			

The table states max. number of Emineres Remote connected to the E-box Remote Basic.

* Cable length is the total cable length between E-box Remote Basic and last connected Eminere Remote. Example: Total cable length=L1+L2+L3+L4



Max. number of Eminere Remote modules connected to the one output of the E-box Remote Basic is stated in the following table.

Max. number of Emineres Remote connected to the one output of the E-box Remote Basic						
Eminere Remote 1	Eminere Remote 1 Eminere Remote 2 Eminere Remote 3 Eminere Remote 4					
16	8	5	4			

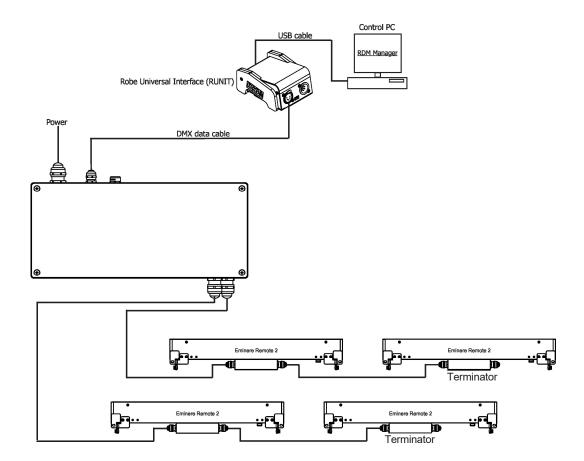
Example: if you want to connect 20 Emineres Remote 1 to the E-box Remote Basic, you may connect 16 Emineres Remote 1 to output 1 and 4 Emineres Remote 1 to output 2 (at total cable length of 25 m).

4.RDM manager

<u>_</u>

The RDM manager allows you to read information about connected LED modules and set their behaviour. The Emineres Remote can be controlled in the Pass Through mode only.

RDM Manager and DMX controller cannot be connected at the same time.



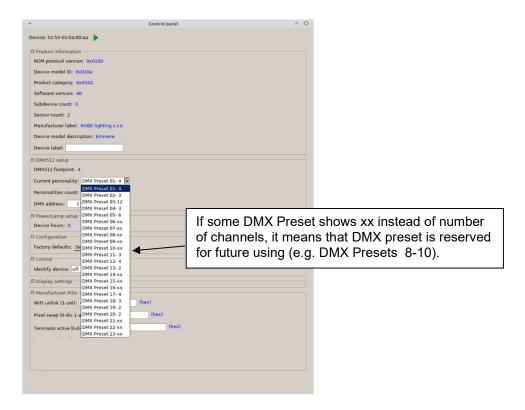
Examples of RDM manager screenshots.

Initial screen of the RDM manager – Pass Through mode:

Pie Workspace View With yorkspace View Ministration Ministration S123-01.000.07.01.01	10 11 22 23	Application
WTX WTX Control panel DMX patch - 4c/55-00:00:71:c8 91:35-02:00:012 Pisace selectunivene(s), radios(s) or device(s). Image: Control panel Image: Control panel		<u> </u>
52:55-02:00:02:2 44:55-00:07:1:8 or device(s).		
		12
DMS1	22 23	
		24
25 26 27 28 29 30 31 32 33	34 35	36
37 38 39 40 41 42 43 44 45	46 47	48
49 50 51, 52 53 54 55 56 57	58 59	60
	58 59	60
61 62 63 64 65 66 67 68 69	70 71	72
73 74 75 76 77 78 79 80 81	82 83	84
		<u>_</u>

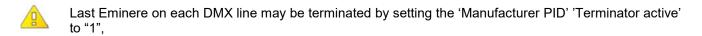
Click on the LED device to show and set options in the Control panel:

Ele Workspace View Windows		RDM-manager 1.0.10 Control panel	* 0			Occ in th								ayed	
DMX preset and number of used channels DMX address	Device: 52:53:01:06:20:24 Device: 52:53:01:06:20:24 Device model ID: 0x:0100 Device model ID: 0x:0100 Device model ID: 0x:0102 Software vession: 40 Subdevice count: 0 Sensor count: 2 Manufacture label: ROBE leghting s.r.o. Device model description: Eminere Device label: Device label: Device inded description: Eminere Device label: Device model secription: Eminere Device label: Secription: Eminere Device model secription: Eminere Device label: Secription: Eminere Device model secription: Eminere Dev	Click on the green arrow to save adjusted values to LED module		8 33 25 37 49 60 61 73	a (a CO as (Meed) 2 14 26 30 50 62 74	in 141 523-54 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	04874 4 16 : 28 : 52 : 52 : 54 : 76 :	5 4 10 10 10 10 10 10 10 10 10 10 10 10 10	7 33 43 55 67 79	20 32 44 56 60	9 22 33 45 57 69 61	10 22 34 46 58 70 62	11 23 35 47 59 71 63	12 24 46 77 64	1
	Pixel swap (0-dis 1-act): 00 Terminator active (0-dis 1-en): 00	(hex) (hex)				tion Calu						t av	/ail	able	



Options in the control panel:

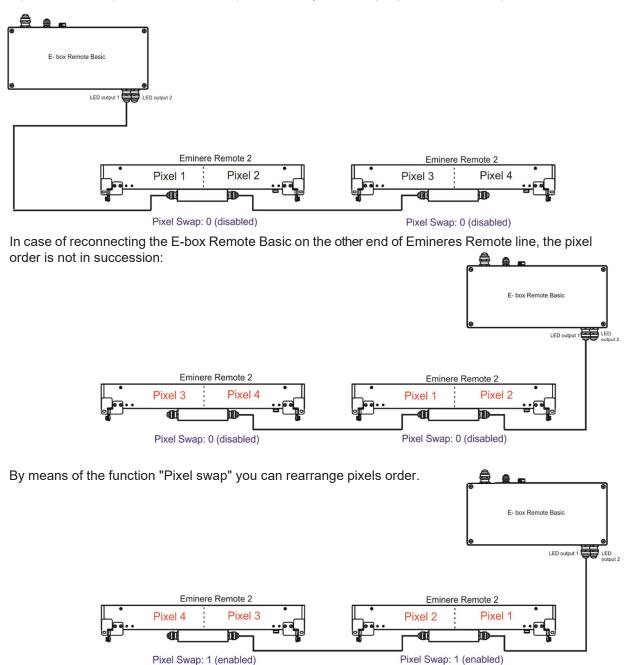
~ Cc	ntrol panel	Θ
Device: 52:53-01:0a:00:aa 🕨		
🗉 Product information		-
RDM protocol version: 0x0100		
Device model ID: 0x010a		
Product category: 0x0102		
Software version: 40		
Subdevice count: 0		
Sensor count: 2		
Manufacturer label: ROBE lighting s.r	.0.	
Device model description: Eminere		
Device label:		
⊡ DMX512 setup		
DMX512 footprint: 4		
Current personality: DMX Preset 01-	4 💌	
Personalities count: 23		
DMX address: 1		
🖻 Power/Lamp setup		
Device hours: 1		
Configuration		_
Factory defaults: Set		
Control		_
Identify device: off		
🗆 Display settings		
Manufacturer PIDs		
WiFi unlink (1-unl): 00	(hex)	
Pixel swap (0-dis 1-act): 00	(hex)	
Terminator active (0-dis 1-en): 00	(hex)	



But ensure that the fixture is not already terminated with a 120 Ohm resistor as described on page 9.

(IIEX)

The option "Pixel swap" from RDM control panel allows you to swap a pixel order. Example:



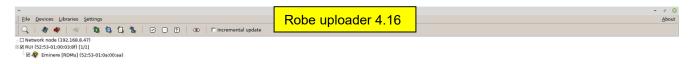
5.Software update of connected LED modules

The software update of connected LED modules can be done by the Robe Universal Interface (or Robe Universal Interface WTX), DMX connection and the ROBE RDM Uploader software. The ROBE Uploader is a software for automatized software update of ROBE fixtures. Please see https://www.robe.cz/robe-uploader/ for more information about the ROBE Uploader.



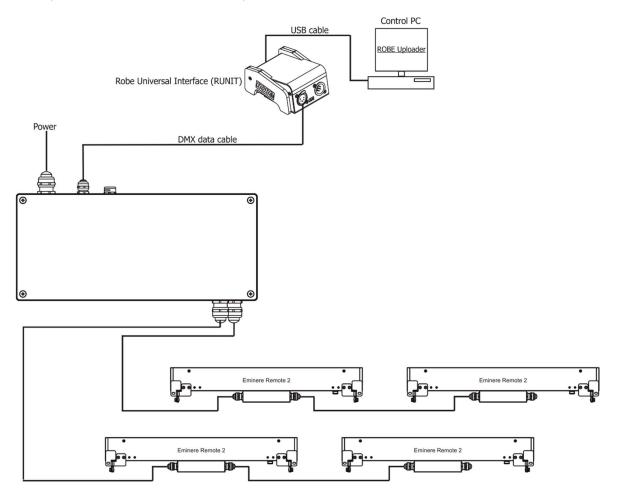
Version of the Robe uploader has to be 4.16 and higher!

You have to use the file Eminere.lib for Emineres Remote update or Calumma.lib for Calummas XS update in the ROBE Uploader.



In case of combination of Emineres Remote and Calummas XS, update Emineres Remote using file Eminere. lib and after that update Calummas XS using file Calumma.lib.

Examples of connection for software update of LED modules.



6.Technical specifications

Input voltage Frequency Power consumption: Fuse 1 Fuse 2 Fuse 3	120-240 V AC; 277V AC 50/60Hz 520W T 6.3A/500V AC T 8A/250V AC T 8A/250V AC T 8A/250V AC
LED Output	
Number of outputs	2
Voltage	48V DC
Max output power	380W per output
Total output power	480W max. per fixtures
Connection	
Power	terminal block
DMX	terminal block
LED Outputs	terminal block
Operating ambient temperature range	-20/+40°C (-4°F / +104°F)
Cooling System	convection
Protection factor	IP65 (CE), Suitable for Wet Locations (US)
IK Rating	IK10
Weight:	5 kg (11.02 lbs)
weight.	

Dimensions mm [inch]

91 [3 5/8"] 0 0 0 Without top cover 360 [14 3/16"] 340 [13 3/8"] 1.0711141 . . ۲ € æ 160 [6 5/16"] 210 [8 1/4"] 10 [4 5/16"] æ € • <u>e</u> ē ē

7. Disposing of the product

To preserve the environment please dispose or recycle this product at the end of its life according to the local regulations and codes.

8. Change Log

This section summarizes changes in the user manual.

Version of the manual	Date of issue	Description of changes
1.1	01/12/2021	Connection improved
1.2	18/01/2022	120 Ohm terminator added
1.3	26/01/2022	Marking of connection blocks modified
1.4	24/02/2022	Information about 120 Ohm terminator changed
1.5	14/03/2022	Design of the user manual changed
1.6	07/04/2022	Connection of Eminere Remote changed
1.7	28/04/2022	Connection of Eminere Remote changed
1.8	21/07/2022	LED modules software update added
1.9	17/08/2022	Connection of Eminere Remote changed
2.0	08/12/2022	DMX chart ver.3.1 added
2.1	05/01/2023	Description of fixture update changed
2.2	08/02/2023	DMX chart ver. 3.2 (Eminere), DMX chart ver. 1.2 (Calumma)
2.3	22/02/2023	Cable gland installation changed

					min	oro l	narour	nd 2/4; Eminere Remote 1/2/3/4;	
							-		
								2/4; UVinere Remote 1/2/4	
/ersi	on: 3.2	-			-	ware	version 3	3.0 and higher	
		Mod	e/Cha	annels	in all		-	Mode 1: RGBW(A)-8bit, Mode 2: RGB 8-bit, Mode 3: full RGBW(A)	
1	2	3	4	5	6	7	8-10	Mode 4: White-full control, Mode 5: Reduced RGBW(A)	
4	3	12	3	6	8	15	Reserved	Mode 6- Reduced RGBW(A)+white control	
								Mode 7- full RGBW(A)+virtual colour wheel	
				-			1	RGBW(A) / RGB modes	
			e/chan				DMX	Function	Type of
1	2	3	4	5	6	7	Value		control
-	-	-	-	-	-	1		Special functions	
							0	No function	step
								To activate following functions , stop in DMX value for at least 3 sec.	
							1-2	Save current DMX values to fixture as initial DMX values.	step
							3-4	Show saved initial DMX values	step
								Run factory demo sequences at switching fixture on (without DMX)	step
							7-255	Reserved	
1	1	1	-	1	1	2		Red	
							0-255	Red LEDs saturation control (0-100%)	proportiona
-	-	2	-	-	-	3		Red Fine	
							0-255	Red LEDs saturation control fine	proportiona
2	2	3	-	2	2	4		Green	
							0-255	Green LEDs saturation control (0-100%)	proportiona
-	-	4	-	-	-	5		Green Fine	
							0-255	Green LEDs saturation control fine	proportiona
3	3	5	-	3	3	6		Blue	
							0-255	Blue LEDs saturation control (0-100%)	proportiona
-	-	6	-	-	-	7		Blue Fine	
							0-255	Blue LEDs saturation control fine	proportiona
4	-	7	-	4	4	8		White (Amber)	
							0-255	White LEDs saturation control (0-100%)	proportiona
-	-	8	-	-	-	9		White (Amber) Fine	
							0-255	White LEDs saturation control fine	proportiona
-	-	9	1	-	5	10		Green correction	· · ·
							0	Uncorrected white	step
								Minus green> uncorrected white	proportiona
							128	Uncorrected white (128=default)	step
								Uncorrected white> Plus green	proportiona
-	-	10	2	-	6	11		Colour temperature correction (CTC)	
			_		-		0	No function	step
							1-10	Tungsten dimming 2700 K	step
							_	Tungsten dimming 2200 K	step
								Colour temperature changing from 1800 K> 6500 K	proportiona
							21 255	(21-1800K, 66-2700K, 91-3200K,141-4200K, 211-5600K, 255-	pi oportiona
								6500K)	
_	-	-	-	l -	-	12	1	Virtual Colour Wheel	

		Mod	e/char	nnels			DMX	DMX Function		
1	2	3	4	5	6	7	Value	i dictori	control	
							1-2	White 1800 K	step	
							3-4	White 2700 K	step	
							5-6	White 3200 K	step	
							7-8	White 4200 K	step	
							9-10	White 5600 K	step	
							11-12	White 6500 K	step	
							13	Blue (Blue=full, Red+Green+White/Amber=0)	step	
							14-23	Red=0, Green->up,Blue =full, White/Amber=0	proportiona	
							24	Cyan (Red=0, Green=full, Blue =full, White/Amber=0)	step	
							25-34	Red=0, Green=full, Blue->down, White/Amber=0	proportiona	
							35	Green (Red=0, Green=full, Blue =0, White/Amber=0)	step	
							36-45	Red->up, Green=full, Blue=0, White/Amber=0	proportiona	
							46	Yellow (Red=full, Green=full, Blue=0, White/Amber=0)	step	
							47-56	Red=full, Green->down, Blue=0, White/Amber=0	proportiona	
							57	Red(Red=full, Green=0, Blue=0, White/Amber=0)	step	
							58-67	Red=full, Green=0, Blue->up, White/Amber=0	proportiona	
							68	Magenta (Red=full, Green=0, Blue=full, White/Amber=0)	step	
							69-78	Red -> down, Green=0, Blue=full, White/Amber=0	proportiona	
							79	Blue (Red=0, Green=0, Blue=full, White/Amber=0)	step	
								Transition effects		
							80-87	Rainbow effect (with fade time) from slow-> fast	proportiona	
								Rainbow effect (without fade time) from slow-> fast	proportiona	
							96-103	Full dynamic white (1800K->6500K->1800K) (with fade time) from	proportiona	
								slow-> fast		
								Full dynamic white (1800K->6500K->1800K) (without fade time) from slow-> fast	proportiona	
							112-119	Dynamic warm white (1800K-3000K-1800K) (with fade time) from slow-> fast	proportiona	
							120-127	Dynamic warm white (1800K-3000K-1800K) (without fade time) from slow-> fast	proportiona	
							128-135	Rainbow effect + full dynamic white (with fade time) from slow-> fast	proportiona	
							136-143	Rainbow effect + full dynamic white (without fade time) from slow-> fast	proportiona	
							145-151	Blue/Green effect (with fade time) from slow-> fast	proportiona	
							152-159	Blue/Green effect (without fade time) from slow-> fast	proportiona	
							160-167	Red/Blue effect (with fade time) from slow-> fast	proportiona	
							168-175	Red/Blue effect (without fade time) from slow-> fast	proportiona	
							176-183	Green/Red effect (with fade time) from slow-> fast	proportiona	
							184-191	Green/Red effect (without fade time) from slow-> fast	proportiona	
								Blue/4000K effect (with fade time) from slow-> fast	proportiona	
								Blue/4000K effect (without fade time) from slow-> fast	proportiona	
								Green/4000K effect (with fade time) from slow-> fast	proportiona	
							216-223	Green/4000K effect (without fade time) from slow-> fast	proportiona	
								Red/4000K effect (with fade time) from slow-> fast	proportiona	
								Red/4000K effect (without fade time) from slow-> fast	proportiona	
								Reserved		
	İ				İ	13	1	Shutter/Strobe		
						_	0-31	Shutter closed	step	
								Shutter open	step	

		Mod	e/char	nels			DMX	Function	Type of
1	2	3	4	5	6	7	Value	Function	control
							64-95	Strobe-effect from slow to fast	proportional
							96-127	Shutter open	step
							128-143	Opening pulse in sequences from slow to fast	proportional
							144-159	Closing pulse in sequences from fast to slow	proportional
							160-191	Shutter open	step
							192-223	Random strobe-effect from slow to fast	proportional
							224-255	Shutter open	step
-	-	11	3	5	7	14		Dimmer	
							0-255	Light intensity coarse (0-100%)	proportional
-	-	12	-	6	8	15		Dimmer Fine	
							0-255	Light intensity fine	proportional
Copyr	ight ©	2022-	2023	Robe I	Lightin	ig s.r.o	All rig	shts reserved	
All Sp	ecifica	tions s	ubject	to ch	ange v	vithou	t notice		

		Emir	nere Ingi	round 2/4; Eminere Remote 1/2/3/4;	
			UVine	ere 2/4; UVinere Remote 1/2/4	
Version: 3	.2 (23 mod	es in total)			
	Mode/Cha	nnels in all		Mode 11: TW – White selection + Dimmer, Mode 12: TW – WW + CW	
11	12	13	14-16	Mode 13: PW - Dimmer	
3	4	2	Reserved	Mode 13 is suitable for UVinere and UVinere Remote	
				TW and PW modes	
N 11	lode/channo 12	els 13	DMX Value	Function	Type of control
1	-	-	Value	White colour selection	control
			0 - 255	White from 2700 K - 6500 K	proportiona
-	1	-		Warm White	
			0 - 255	Warm White LEDs saturation control (0-100%)	proportiona
-	2	-		Cool White	
			0 - 255	Cool White LEDs saturation control (0-100%)	proportiona
2	3	1		Dimmer	
			0 - 255	Light intensity coarse (0 - 100%)	proportiona
3	4	2		Dimmer Fine	
			0 - 255	Light intensity fine	proportiona
Copyright	© 2022-20	23 Robe Li	ghting s.r.c	o All rights reserved	

DMX protocol for: Eminere 1/2/3/4; Eminere Side 1/2/3/4;
Eminere Inground 2/4; Eminere Remote 1/2/3/4;

ersion: 3	.2 (23 mod					
		e/Channels	1	_	Mode 16: RGBW(A) pixels, Mode 17 RGB pixels, Mode 18: T	W pixels,
17	18	19	20	21-23	Mode 19- PW dimmer pixels	
16	12	8	8	Reserved		
					Pixel modes	
47		channels		DMX	Function	Type of
17	18	19	20	Value	Ded 4. Ensine and 4/2/2/4	control
1	1	-	-	0.255	Red 1 -Eminere 1/2/3/4	
				0 - 255	Red LEDs saturation control (0-100%)	proportional
2	2	-	-	0.255	Green 1-Eminere 1/2/3/4	
				0 - 255	Green LEDs saturation control (0-100%)	proportional
3	3	-	-	0 - 255	Blue 1-Eminere 1/2/3/4 Blue LEDs saturation control (0-100%)	
				0 - 255	White (Amber) 1-Eminere 1/2/3/4	proportional
4	-	-	-	0.255	White LEDs saturation control (0-100%)	nroportional
				0 - 255	Red 2 -Eminere 2/3/4	proportional
5	4	-	-	0 - 255	Red LEDs saturation control (0-100%)	nroportional
				0 - 255	Green 2-Eminere 2/3/4	proportional
6	5	-	-	0 - 255	Green LEDs saturation control (0-100%)	nroportional
7	6			0-255	Blue 2-Eminere 2/3/4	proportional
7	6	-	-	0 255	Red LEDs saturation control (0-100%)	
0				0 - 255	White (Amber) 2-Eminere 2/3/4	proportional
8	-	-	-	0 - 255	White LEDs saturation control (0-100%)	nroportional
9	7			0-233	Red 3-Eminere 3/4	proportional
9	/	-	-	0 - 255	Red LEDs saturation control (0-100%)	proportional
10	8	-	-	0-255	Green 3-Eminere 3/4	proportional
10	0	-	-	0 - 255	Green LEDs saturation control (0-100%)	proportional
11	9	-	-	0-255	Blue 3-Eminere 3/4	proportional
11	9	-	-	0 - 255	Blue LEDs saturation control (0-100%)	proportional
12	-	-	-	0-255	White (Amber) 3-Eminere 3/4	proportional
12	-	-	-	0 - 255	White LEDs saturation control (0-100%)	proportional
13	10	-	-	0-255	Red 4-Eminere 4	proportional
13	10	-	-	0 - 255	Red LEDs saturation control (0-100%)	proportional
14	11	-	-	0 233	Green 4-Eminere 4	proportional
14				0 - 255	Green LEDs saturation control (0-100%)	proportional
15	12	-	-	0 233	Blue 4-Eminere 4	proportional
15	12			0 - 255	Blue LEDs saturation control (0-100%)	proportional
16	_	-	-	0 233	White (Amber) 4 -Eminere 4	proportional
				0 - 255	White LEDs saturation control (0-100%)	proportional
-	-	1	-		Warm White 1 -Eminere 1/2/3/4	p. oportional
		-			Warm White LEDs saturation control (0-100%)	proportional
-	-	2	-	1	Cool White 1-Eminere 1/2/3/4	p. oportional
				0 - 255	Cool White LEDs saturation control (0-100%)	proportional
	-	3	-		Warm White 2-Eminere 2/3/4	

	Mode/c	hannels		DMX	Function	Type of	
17	18	19	20	Value	Function	control	
				0 - 255	Warm White LEDs saturation control (0-100%)	proportion	
-	-	4	-		Cool White 2-Eminere 2/3/4		
				0 - 255	Cool White LEDs saturation control (0-100%)	proportion	
-	-	5	-		Warm White 3-Eminere 3/4		
				0 - 255	Warm White LEDs saturation control (0-100%)	proportion	
-	-	6	-		Cool White 3-Eminere 3/4		
				0 - 255	Cool White LEDs saturation control (0-100%)	proportion	
-	-	7	-		Warm White 4 -Eminere 4		
				0 - 255	Warm White LEDs saturation control (0-100%)	proportior	
-	-	8	-		Cool White 4 -Eminere 4		
				0 - 255	Cool White LEDs saturation control (0-100%)	proportion	
-	-	-	1		Dimmer 1		
				0 - 255	Light intensity coarse (0 - 100%)	proportior	
-	-	-	2		Dimmer Fine 1		
				0 - 255	Light intensity fine	proportior	
-	-	-	3		Dimmer 2		
				0 - 255	Light intensity coarse (0 - 100%)	proportior	
-	-	-	4		Dimmer Fine 2		
				0 - 255	Light intensity fine	proportior	
-	-	-	5		Dimmer 3		
				0 - 255	Light intensity coarse (0 - 100%)	proportior	
-	-	-	6		Dimmer Fine 3		
				0 - 255	Light intensity fine	proportior	
-	-	-	7		Dimmer 4		
				0 - 255	Light intensity coarse (0 - 100%)	proportior	
		-	8		Dimmer Fine 4		
-	-	-	-				

Version: 1.2 (16 modes in total))			
	Mode/Channels in all				nels iı	n all		Mode 1- RGBW(A)-8bit,Mode 2- RGB 8-bit,Mode 3- full RGBW(A)	
1	2	3	4	5	6	7	8-10	Mode 4- White-full control, Mode 5- Reduced RGBW(A)	
4	3	12	3	6	8	15	Reserved	Mode 6- Reduced RGBW(A)+white control	
								RGBW/RGBA/RGB modes	
		1	e/cha	1	1	-		Function	
1	2	3	4	5	6	7	DMX Value		Type of control
-	-	-	-	-	-	1	0	Special functions No function	ston
							0		step
								To activate following functions , stop in DMX value for at least 3 sec.	
							1-2	Save current DMX values to fixture as initial DMX values.	step
							3-4	Show saved initial DMX values	step
							5-6	Run factory demo sequences at switching fixture on (without DMX)	step
							7-255	Reserved	
1	1	1	-	1	1	2		Red	
							0 - 255	Red LEDs saturation control (0-100%)	proportional
-	-	2	-	-	-	3		Red Fine	
							0 - 255	Red LEDs saturation control fine	proportional
2	2	3	-	2	2	4		Green	
							0 - 255	Green LEDs saturation control (0-100%)	proportional
-	-	4	-	-	-	5		Green Fine	
							0 - 255	Green LEDs saturation control fine	proportional
3	3	5	-	3	3	6		Blue	
							0 - 255	Blue LEDs saturation control (0-100%)	proportional
-	-	6	-	-	-	7		Blue Fine	
							0 - 255	Blue LEDs saturation control fine	proportional
4	-	7	-	4	4	8		White (Amber)	
-		-			-		0 - 255	White LEDs saturation control (0-100%)	proportional
-	-	8	-	_	-	9		White (Amber) Fine	properties.
							0 - 255	White LEDs saturation control fine	proportional
_	<u> </u>	9	1	_	5	10		Green correction	p. cp c . c . c . c
			-				0	Uncorrected white	step
							1-127	Minus green - uncorrected white	proportional
							128	Uncorrected white (128=default)	step
							129-255	Uncorrected white - Plus green	proportional
_	-	10	2	_	6	11		Colour temperature correction (CTC)	propertional
							0	No function	step
							1 - 10	Tungsten dimming 2700 K	step
							11 - 20	Tungsten dimming 3200 K	step
							21-255	Colour temperature changing from 1800 K> 6500 K	proportional
								(21-1800K, 66-2700K, 91-3200K,141-4200K, 211-5600K, 255- 6500K)	p p
-	-	-	-	-	-	12		Virtual Colour Wheel	
							0	No function	step
							1-2	White 1800 K	step
							3-4	White 2700 K	step
							5-6	White 3200 K	step

		Mod	e/cha	nnels				Function	
1	2	3	4	5	6	7	DMX Value	Function	Type of control
							7-8	White 4200 K	step
							9-10	White 5600 K	step
							11-12	White 6500 K	step
							13	Blue (Blue=full, Red+Green+White/Amber=0)	step
							14-23	Red=0, Green->up,Blue =full, White/Amber=0	proportional
							24	Cyan (Red=0, Green=full, Blue =full, White/Amber=0)	step
							25-34	Red=0, Green=full, Blue->down, White/Amber=0	proportional
							35	Green (Red=0, Green=full, Blue =0, White/Amber=0)	step
							36-45	Red->up, Green=full, Blue=0, White/Amber=0	proportional
							46	Yellow (Red=full, Green=full, Blue=0, White/Amber=0)	step
							47-56	Red=full, Green->down, Blue=0, White/Amber=0	proportional
							57	Red(Red=full, Green=0, Blue=0, White/Amber=0)	step
							58-67	Red=full, Green=0, Blue->up, White/Amber=0	proportional
							68	Magenta (Red=full, Green=0, Blue=full, White/Amber=0)	step
							69-78	Red -> down, Green=0, Blue=full, White/Amber=0	proportional
							79	Blue (Red=0, Green=0, Blue=full, White/Amber=0)	step
								Transition effects	
							80-87	Rainbow effect (with fade time) from slow-> fast	proportional
							88-95	Rainbow effect (without fade time) from slow -> fast	proportional
							96-103	Full dynamic white (1800K->6500K->1800K) (with fade time)	proportional
								from slow-> fast	
							104-111	Full dynamic white (1800K->6500K->1800K) (without fade time)	proportional
								from slow-> fast	
							112-119	Dynamic warm white (1800K-3000K-1800K) (with fade time)	proportional
							120-127	from slow-> fast Dynamic warm white (1800K-3000K-1800K) (without fade time)	proportional
							120-127	from slow-> fast	proportional
							128-135	Rainbow effect + full dynamic white (with fade time) from slow-	proportional
								> fast	
							136-143	Rainbow effect + full dynamic white (without fade time) from	proportional
								slow-> fast	
							145-151	Blue/Green effect (with fade time) from slow-> fast	proportional
							152-159	Blue/Green effect (without fade time) from slow-> fast	proportional
							160-167	Red/Blue effect (with fade time) from slow-> fast	proportional
							168-175	Red/Blue effect (without fade time) from slow-> fast	proportional
							176-183	Green/Red effect (with fade time) from slow-> fast	proportional
							184-191	Green/Red effect (without fade time) from slow-> fast	proportional
							192-199	Blue/4000K effect (with fade time) from slow-> fast	proportional
							200-207	Blue/4000K effect (without fade time) from slow-> fast	proportional
							208-215	Green/4000K effect (with fade time) from slow-> fast	proportional
							216-223	Green/4000K effect (without fade time) from slow-> fast	proportional
							224-231	Red/4000K effect (with fade time) from slow-> fast	proportional
							232-239	Red/4000K effect (without fade time) from slow-> fast	proportional
						13		Shutter/Strobe	
							0-31	Shutter closed	step
							32-63	Shutter open	step
							64-95	Strobe-effect from slow to fast	proportional
	1						96-127	Shutter open	step
	1						128-143	Opening pulse in sequences from slow to fast	proportional
	1						144-159	Closing pulse in sequences from fast to slow	proportional

		Mode	e/cha	nnels				Function	
1	2	3	4	5	6	7	DMX Value	Function	Type of control
							160-191	Shutter open	step
							192-223	Random strobe-effect from slow to fast	proportional
							224-255	Shutter open	step
-	-	11	3	5	7	14		Dimmer	
							0 - 255	Light intensity coarse (0-100%)	proportional
-	-	12	-	6	8	15		Dimmer Fine	
							0 - 255	Light intensity fine	proportional
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ersion: 1	2 (16 mod	es în total)			
Mode/Channels in all				TW Modes: Mode 6- White selection + Dimmer, Mode 7- WW + CW	
11	12	13	14-16	PW Mode: Mode 8- Dimmer	
3	4	2	Reserved		
				TW and PW modes	
Mode/channels			DMX	F	
11	12	13	Value	Function	Type of contro
1	-	-		White colour selection	
			0 - 255	White from 2700 K - 6500 K	proportional
-	1	-		Warm White	
			0 - 255	Warm White LEDs saturation control (0-100%)	proportional
-	2	-		Cool White	
			0 - 255	Cool White LEDs saturation control (0-100%)	proportional
2	3	1		Dimmer	
			0 - 255	Light intensity coarse (0 - 100%)	proportional
3	4	2		Dimmer Fine	
			0 - 255	Light intensity fine	proportional
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